

FIG. 1

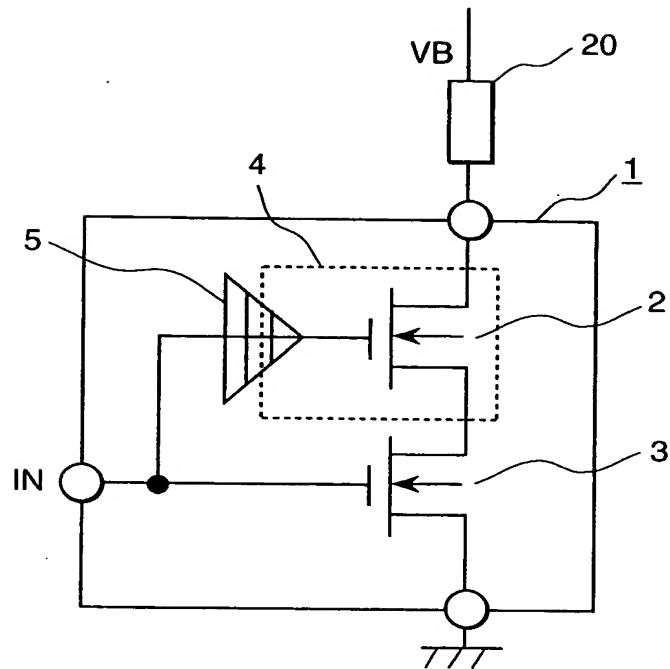


FIG. 2

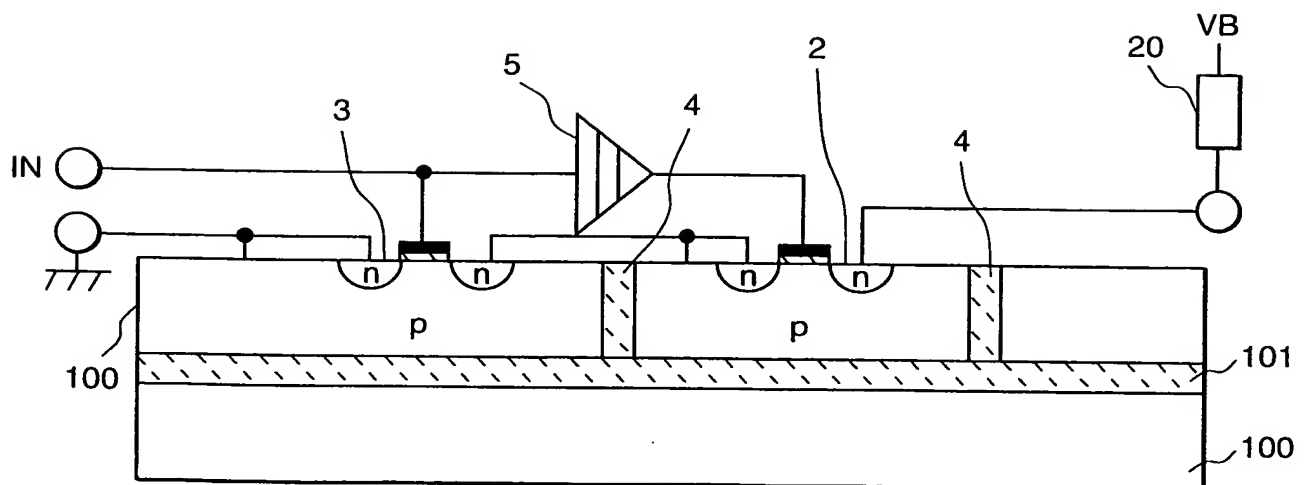


FIG. 3

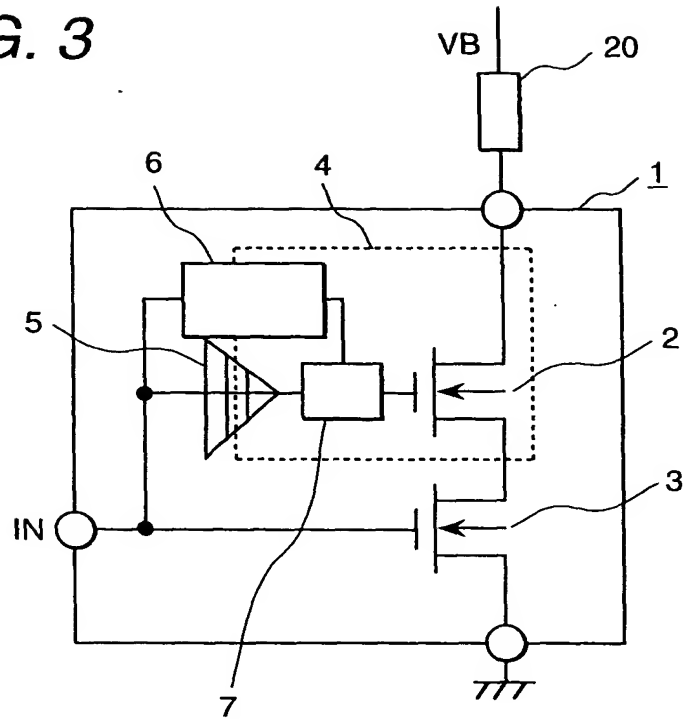


FIG. 4

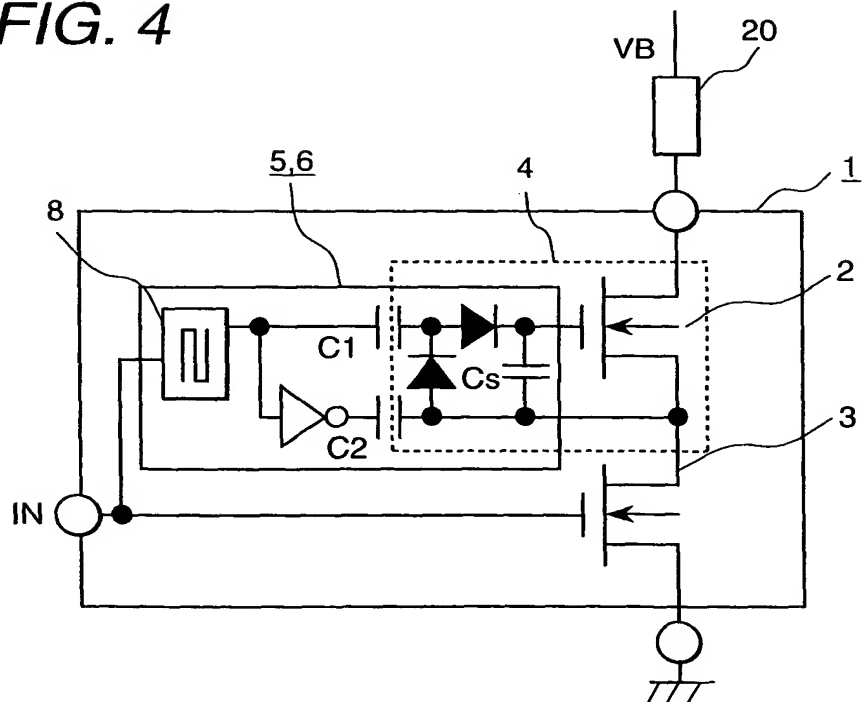


FIG. 5

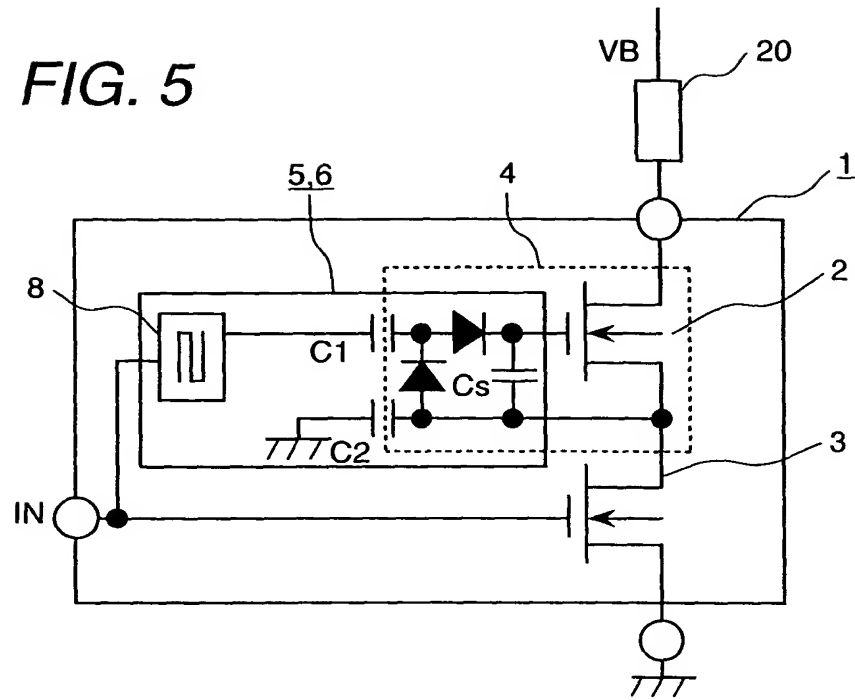


FIG. 6

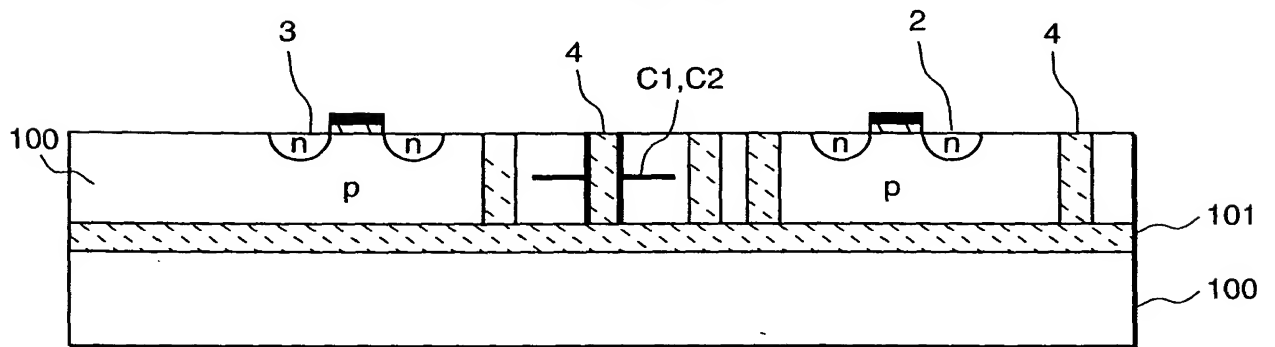


FIG. 7

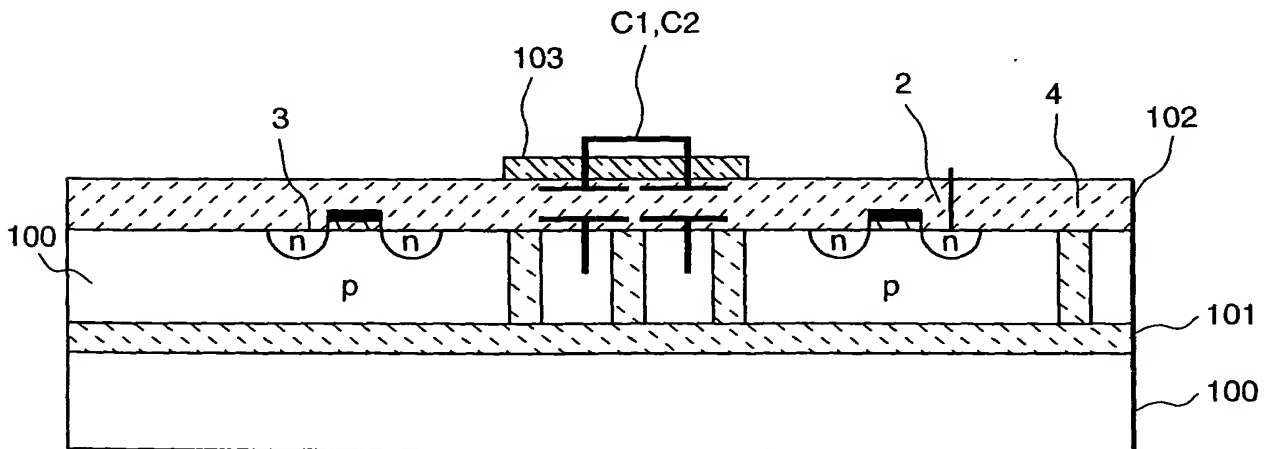


FIG. 8

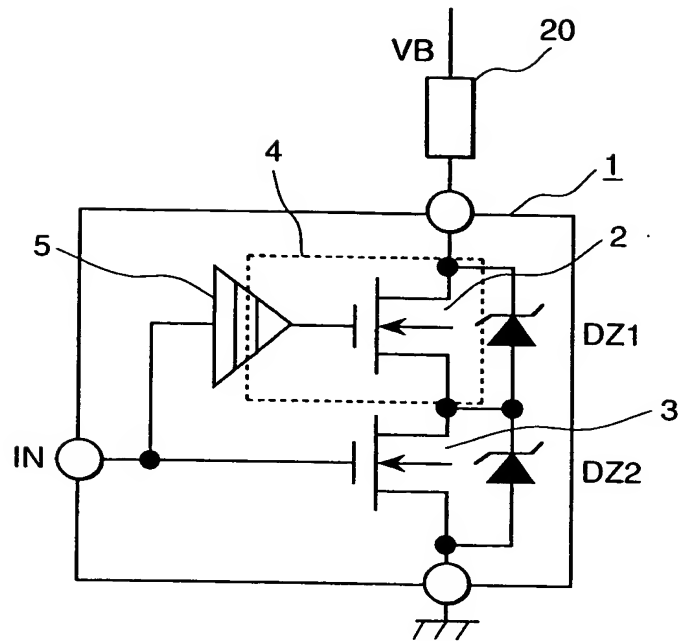


FIG. 9

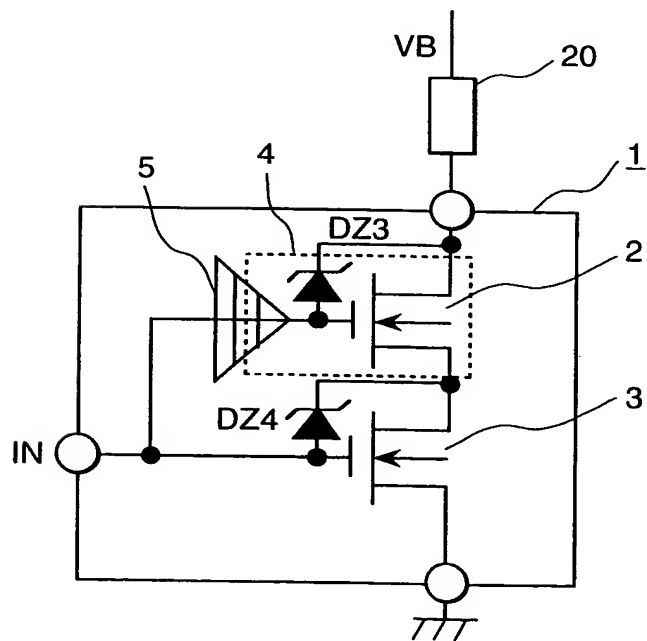


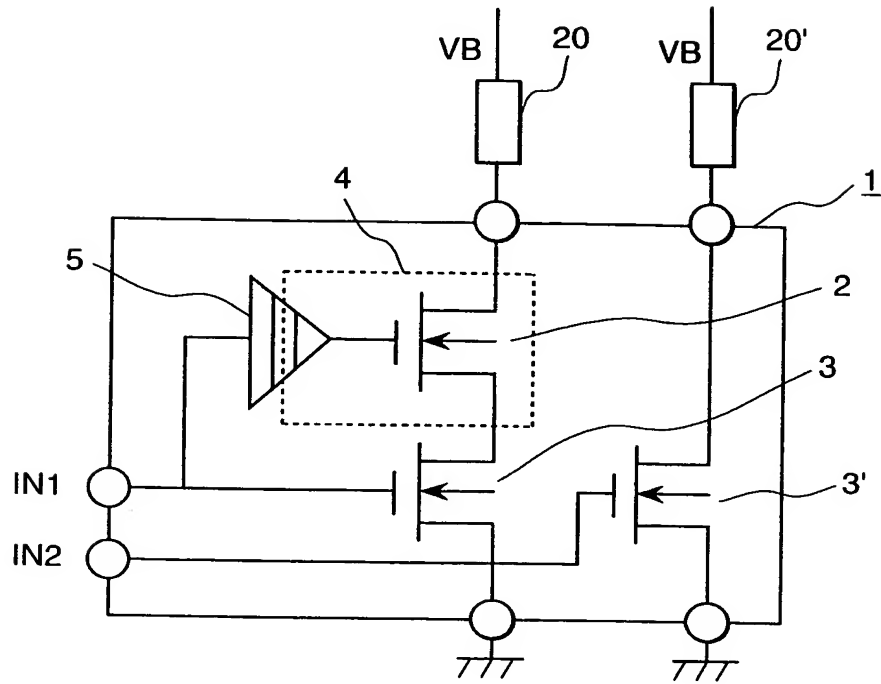
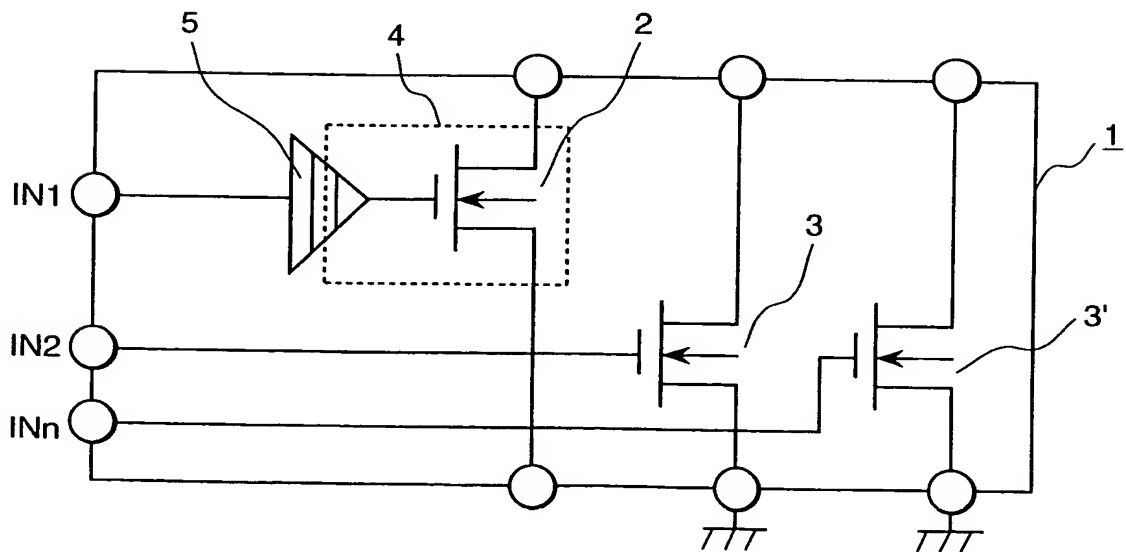
FIG. 10**FIG. 11**

FIG. 12

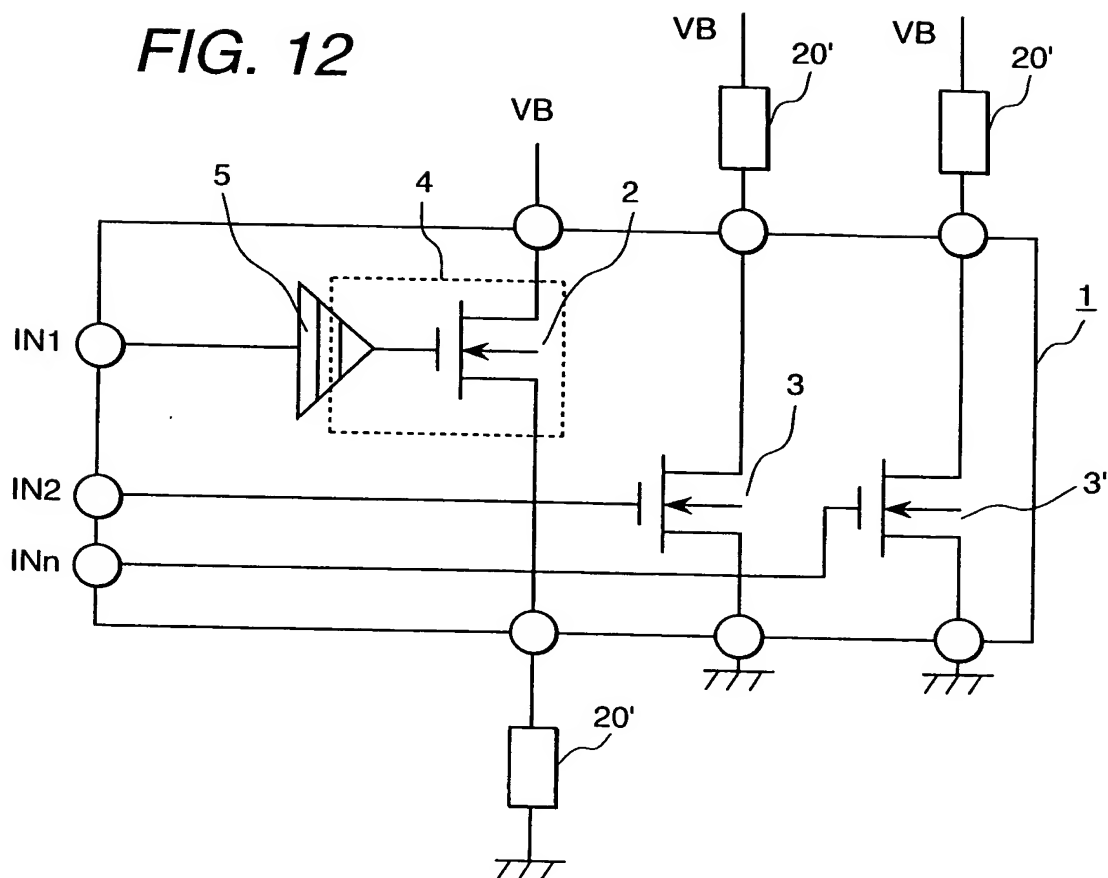


FIG. 13

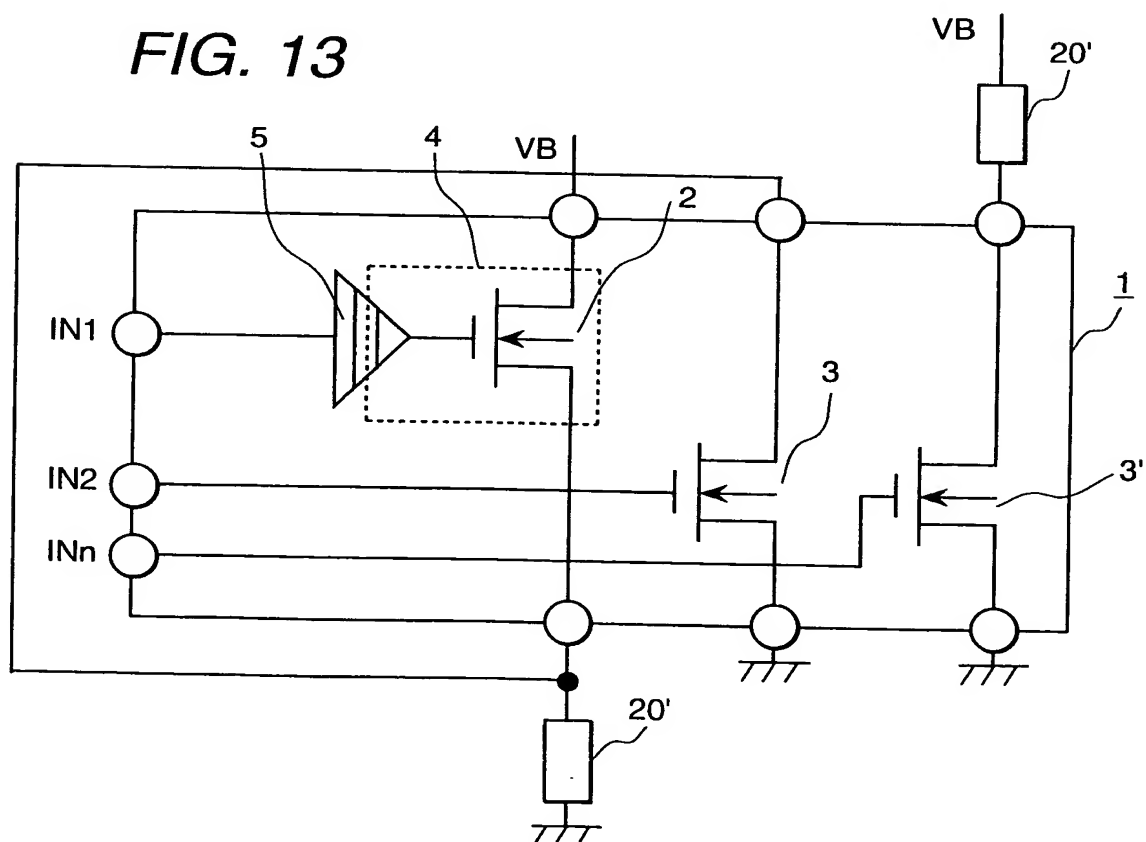


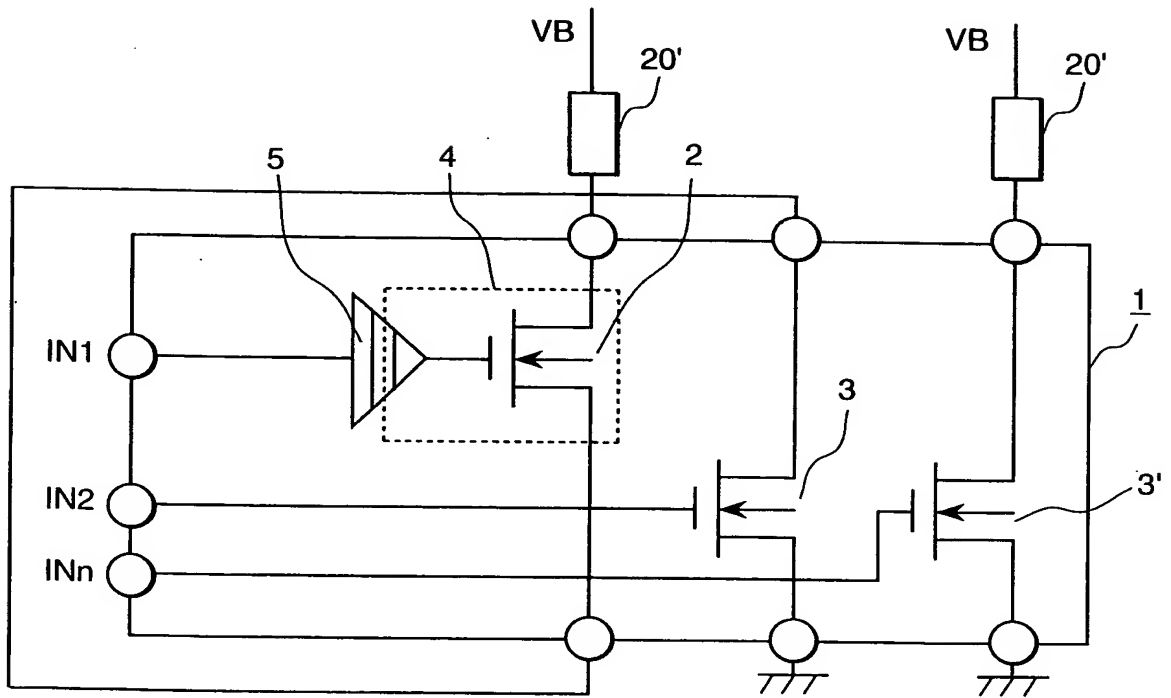
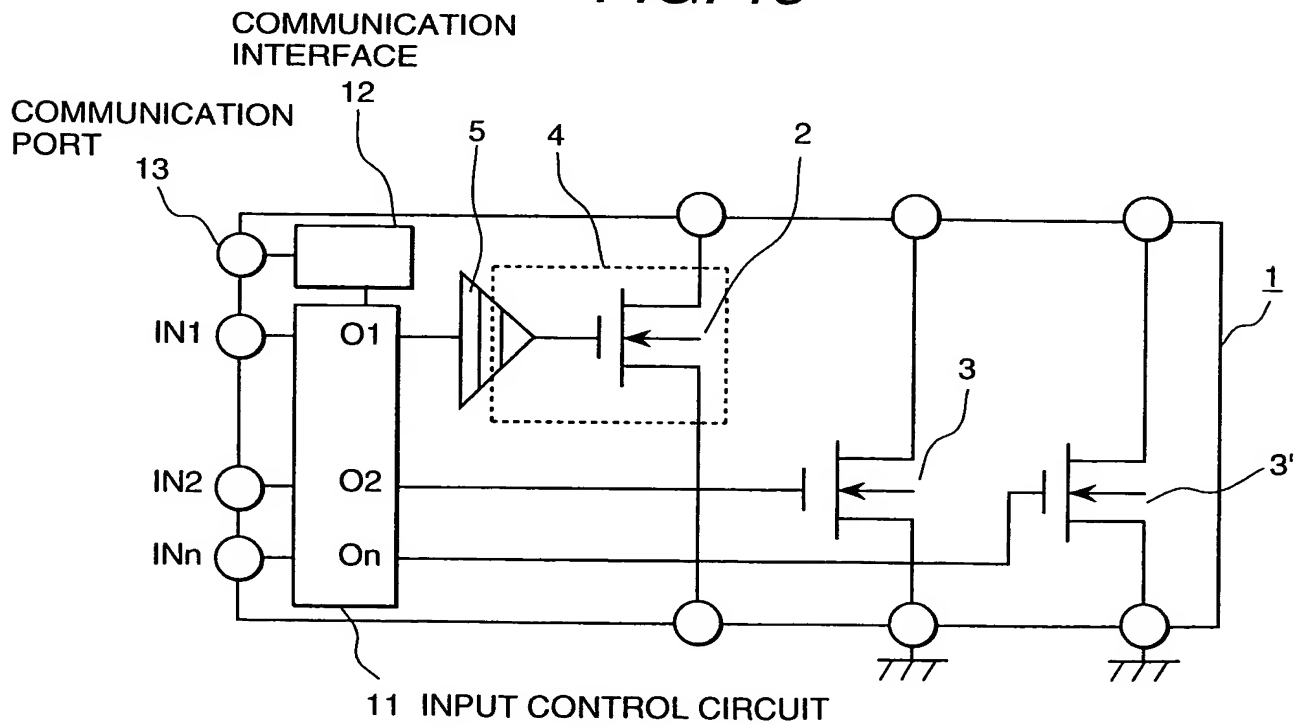
FIG. 14**FIG. 15**

FIG. 16

| IN1 | IN2 | O1 | O2 |
|-----|-----|----|----|
| L | L | L | L |
| L | H | L | H |
| H | L | H | L |
| H | H | L | L |

FIG. 17

| IN1 | O1 | O2 |
|-----|----|----|
| L | L | L |
| H | H | H |

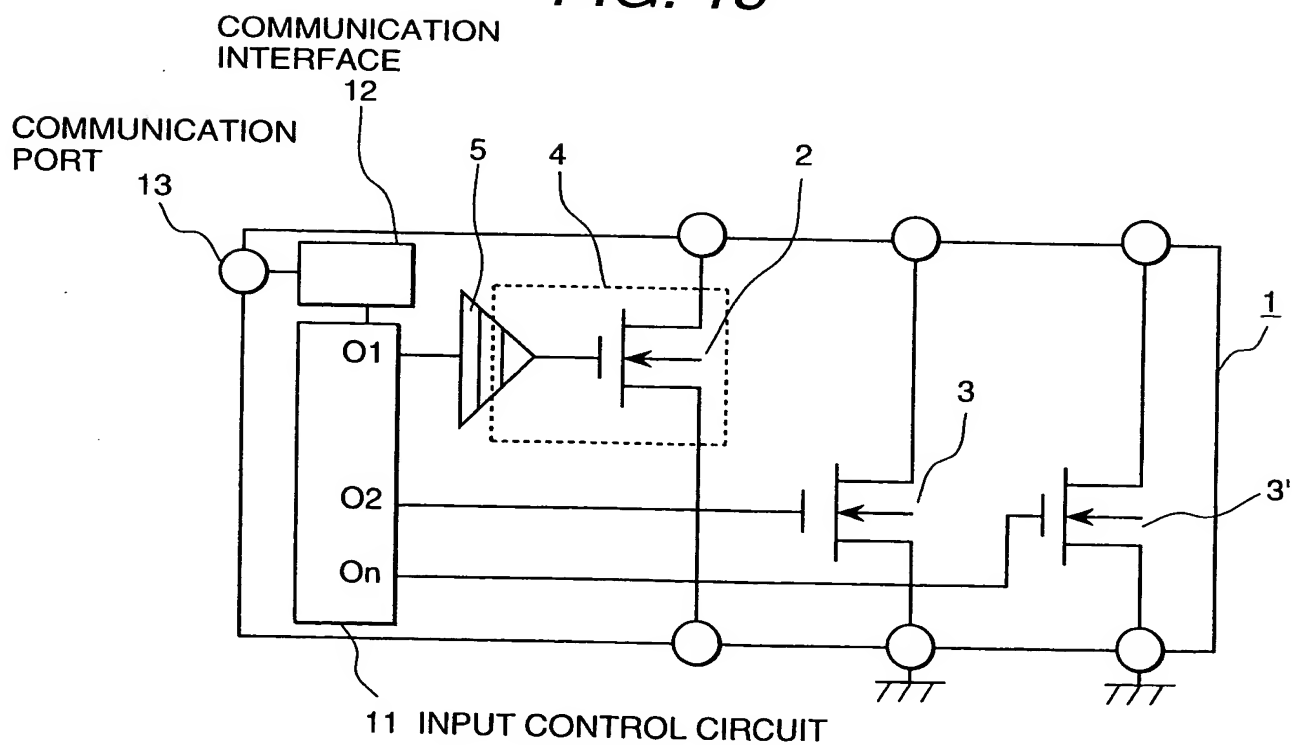
FIG. 18

FIG. 19

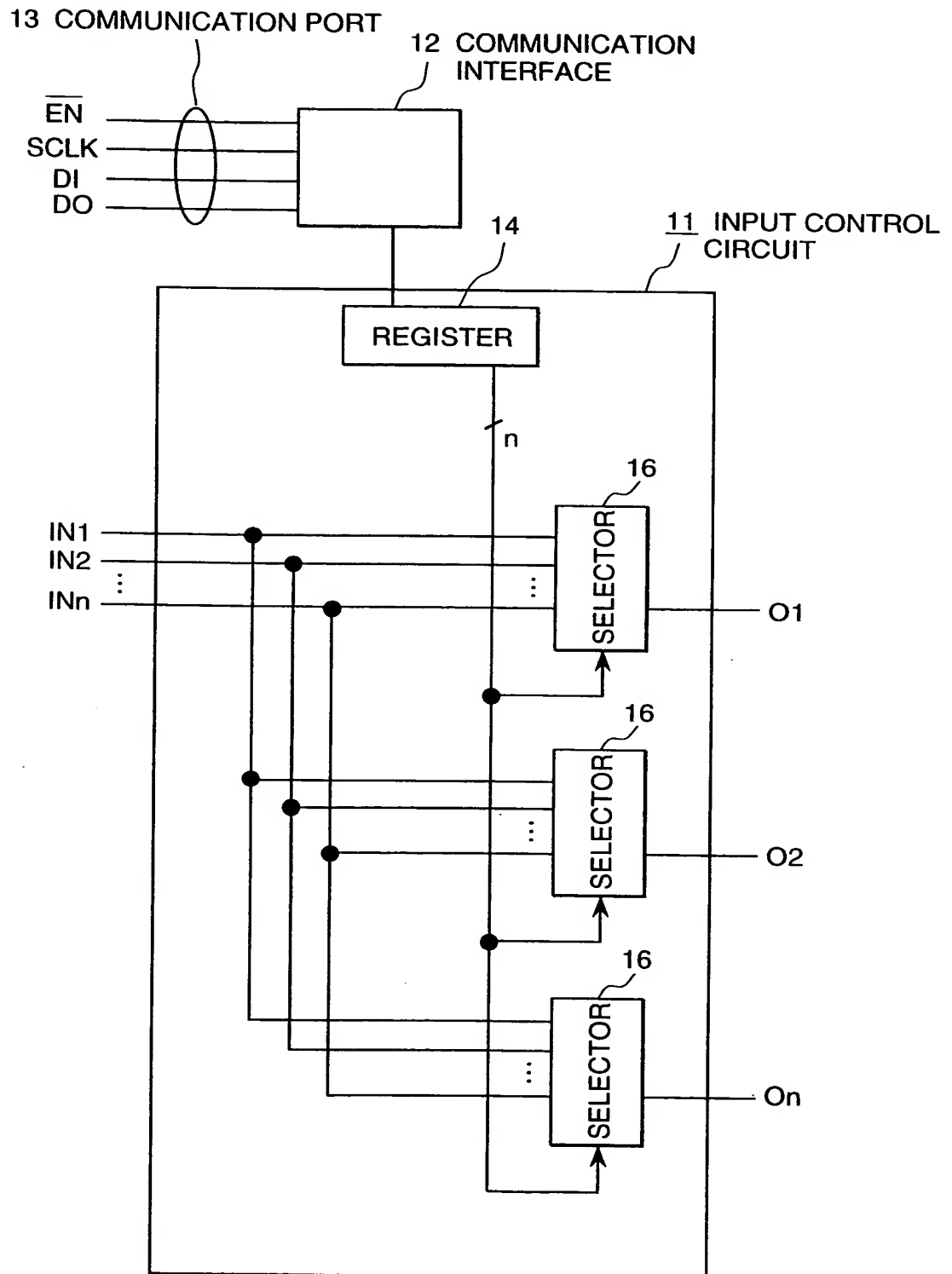


FIG. 20

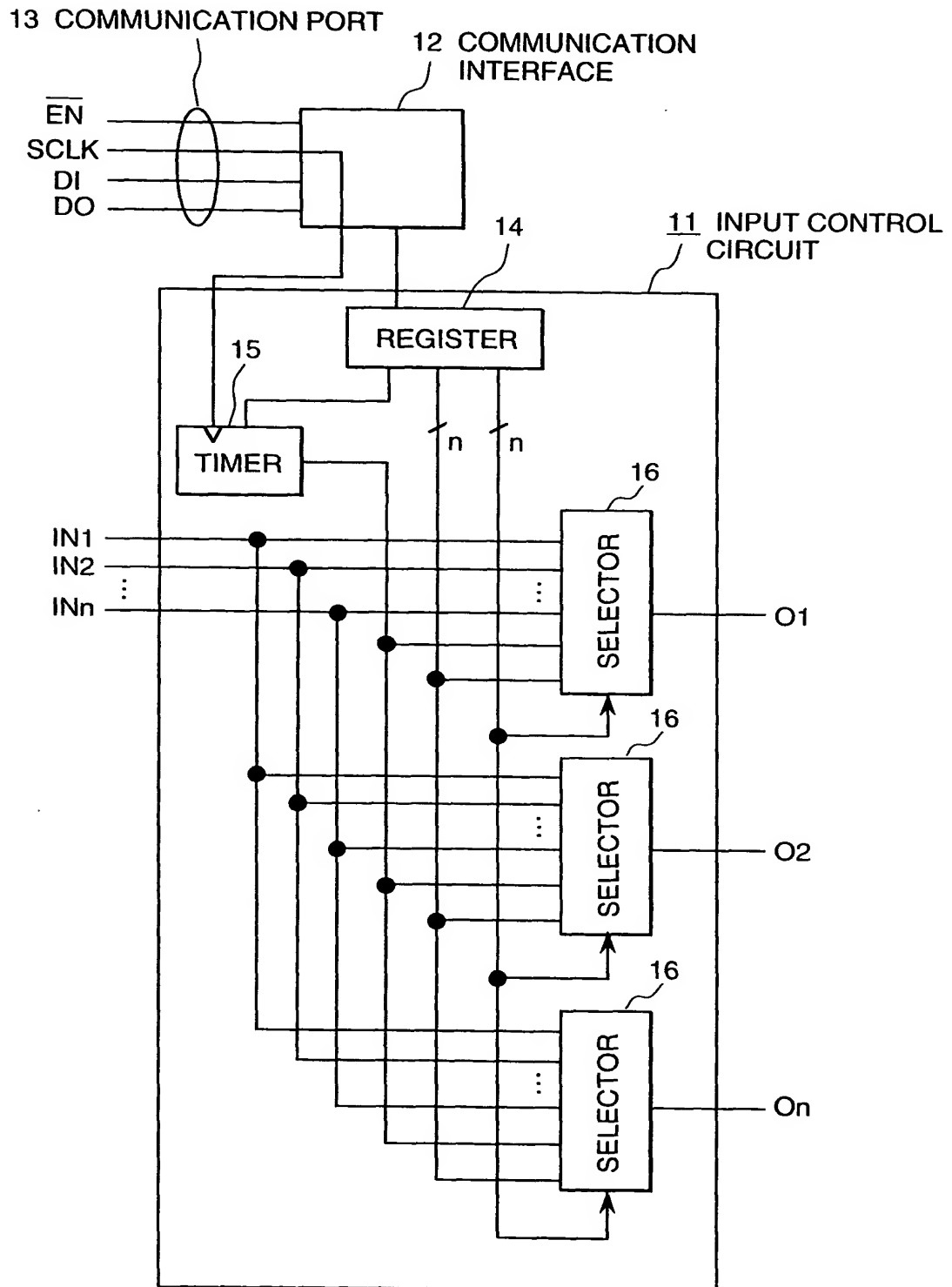


FIG. 21

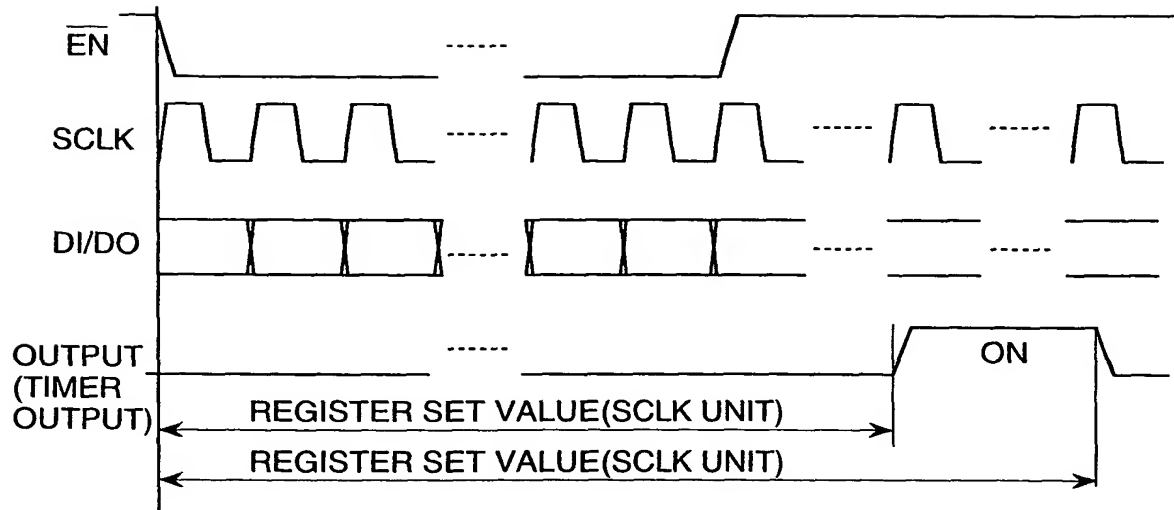


FIG. 22

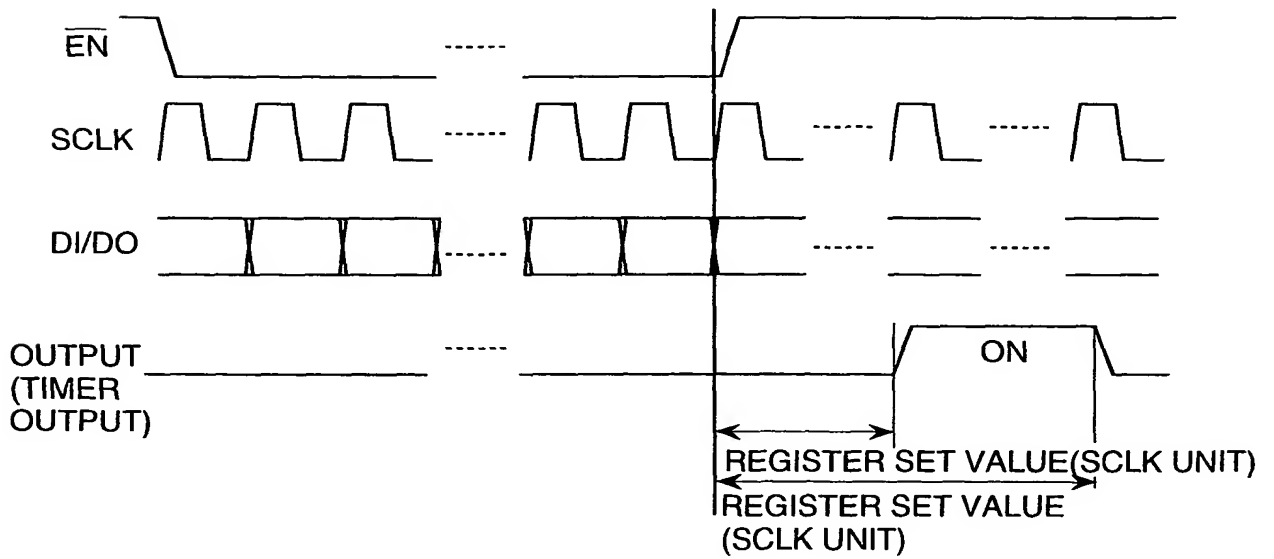


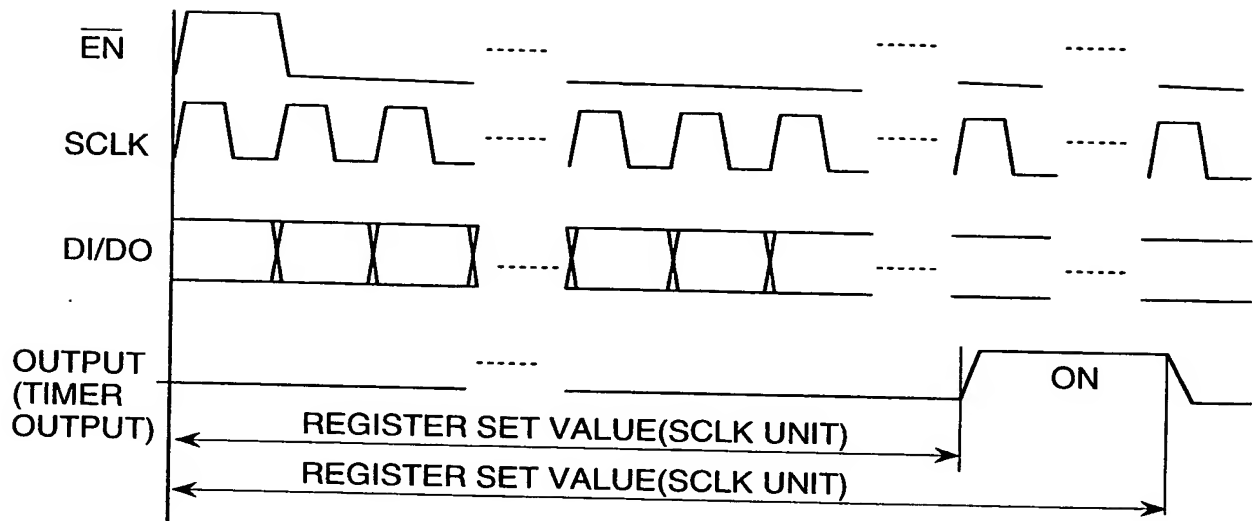
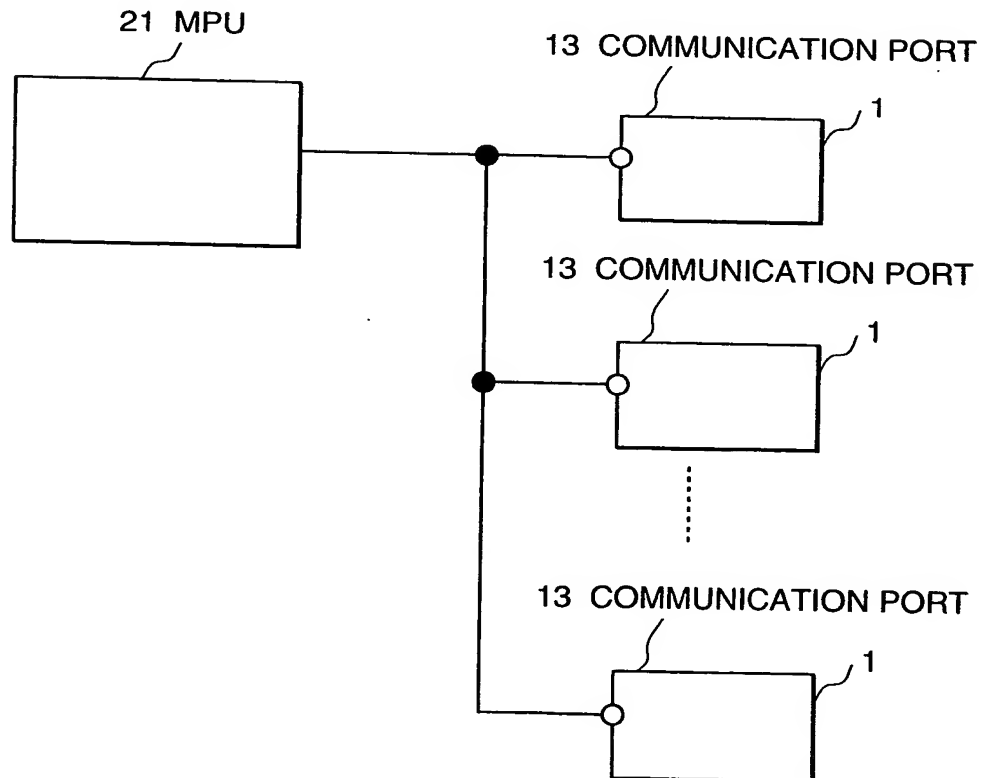
FIG. 23**FIG. 24**

FIG. 25

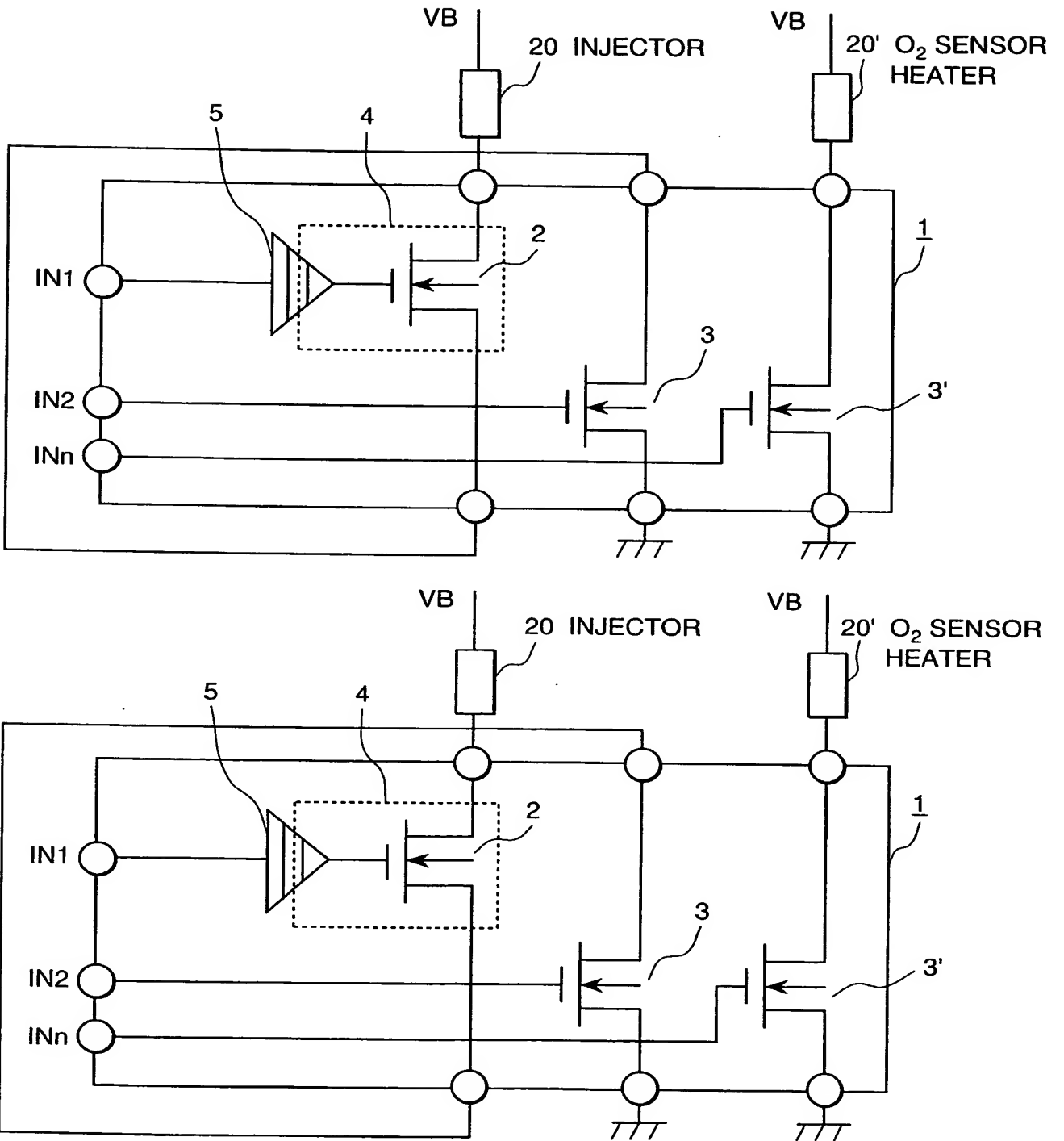


FIG. 26

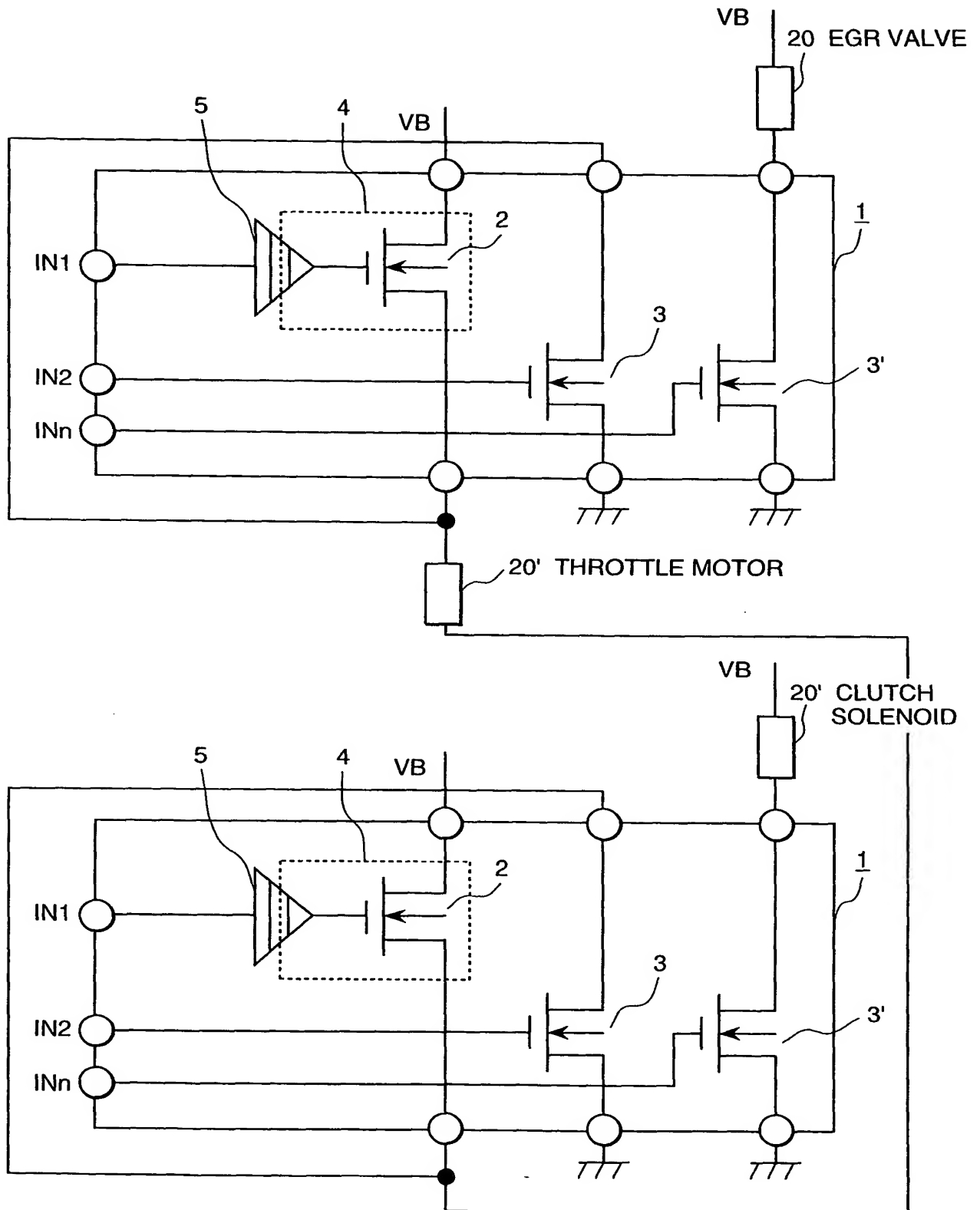


FIG. 27

| LSI | CHAN- NEL | WITHSTAND VOLTAGE | | ON RESISTANCE | | USE | | | | |
|-----|--------------|----------------------|------|------------------|----------------|-----------------|-----------------|-----------------|--|--|
| | | | | | | FOR 4 CYLINDERS | FOR 6 CYLINDERS | FOR 8 CYLINDERS | | |
| 1 | 1a | 40V | 80V | 0.3Ω | 0.6Ω | INJECTOR 1 | INJECTOR 1 | INJECTOR 1 | | |
| | 1b | 40V | | 0.3Ω | | | | | | |
| | 2a | 40V | 80V | 0.3Ω | 0.6Ω | INJECTOR 2 | INJECTOR 2 | INJECTOR 2 | | |
| | 2b | 40V | | 0.3Ω | | | | | | |
| | 3a | 40V | 80V | 0.3Ω | 0.6Ω | INJECTOR 3 | INJECTOR 3 | INJECTOR 3 | | |
| | 3b | 40V | | 0.3Ω | | | | | | |
| | 4a | 40V | 80V | 0.3Ω | 0.6Ω | INJECTOR 4 | INJECTOR 4 | INJECTOR 4 | | |
| | 4b | 40V | | 0.3Ω | | | | | | |
| | 5a | 40V | 80V | 0.3Ω | 0.6Ω | LOW PRES. LOAD | INJECTOR 5 | LOW PRES. LOAD | | |
| | 5b | 40V | | 0.3Ω | | LOW PRES. LOAD | | LOW PRES. LOAD | | |
| | 6a | 40V | 80V | 0.3Ω | 0.6Ω | LOW PRES. LOAD | INJECTOR 6 | LOW PRES. LOAD | | |
| | 6b | 40V | | 0.3Ω | | LOW PRES. LOAD | | LOW PRES. LOAD | | |
| 7~n | 40V | | 0.3Ω | | LOW PRES. LOAD | LOW PRES. LOAD | LOW PRES. LOAD | | | |
| 2 | 1a | 40V | 80V | 0.3Ω | 0.6Ω | / | / | INJECTOR 5 | | |
| | 1b | 40V | | 0.3Ω | | | | | | |
| | 2a | 40V | 80V | 0.3Ω | 0.6Ω | | | INJECTOR 6 | | |
| | 2b | 40V | | 0.3Ω | | | | | | |
| | 3a | 40V | 80V | 0.3Ω | 0.6Ω | | | INJECTOR 7 | | |
| | 3b | 40V | | 0.3Ω | | | | | | |
| | 4a | 40V | 80V | 0.3Ω | 0.6Ω | | | INJECTOR 8 | | |
| | 4b | 40V | | 0.3Ω | | | | | | |
| | 5a | 40V | 80V | 0.3Ω | 0.6Ω | | | LOW PRES. LOAD | | |
| | 5b | 40V | | 0.3Ω | | | | LOW PRES. LOAD | | |
| | 6a | 40V | 80V | 0.3Ω | 0.6Ω | | | LOW PRES. LOAD | | |
| | 6b | 40V | | 0.3Ω | | | | LOW PRES. LOAD | | |
| | 7~n | 40V | | 0.3Ω | | | | LOW PRES. LOAD | | |

FIG. 28

| LSI | CHAN- NEL | WITHSTAND VOLTAGE | | ON RESISTANCE | | USE | | |
|-----|--------------|----------------------|-----|------------------|-------|-----------------|-----------------|-----------------|
| | | | | | | FOR 4 CYLINDERS | FOR 6 CYLINDERS | FOR 8 CYLINDERS |
| 1 | 1 | 80V | | 0.6 Ω | | INJECTOR 1 | INJECTOR 1 | INJECTOR 1 |
| | 2 | 80V | | 0.6 Ω | | INJECTOR 2 | INJECTOR 2 | INJECTOR 2 |
| | 3 | 80V | | 0.6 Ω | | INJECTOR 3 | INJECTOR 3 | INJECTOR 3 |
| | 4 | 80V | | 0.6 Ω | | INJECTOR 4 | INJECTOR 4 | INJECTOR 4 |
| | 5a | 40V | 80V | 0.3 Ω | 0.6 Ω | LOW PRES. LOAD | INJECTOR 5 | LOW PRES. LOAD |
| | 5b | 40V | | 0.3 Ω | | LOW PRES. LOAD | | LOW PRES. LOAD |
| | 6a | 40V | 80V | 0.3 Ω | 0.6 Ω | LOW PRES. LOAD | INJECTOR 6 | LOW PRES. LOAD |
| | 6b | 40V | | 0.3 Ω | | LOW PRES. LOAD | | LOW PRES. LOAD |
| | 7~n | 40V | | 0.3 Ω | | LOW PRES. LOAD | LOW PRES. LOAD | LOW PRES. LOAD |
| 2 | 1 | 80V | | 0.6 Ω | | | | INJECTOR 5 |
| | 2 | 80V | | 0.6 Ω | | | | INJECTOR 6 |
| | 3 | 80V | | 0.6 Ω | | | | INJECTOR 7 |
| | 4 | 80V | | 0.6 Ω | | | | INJECTOR 8 |
| | 5a | 40V | 80V | 0.3 Ω | 0.6 Ω | | | LOW PRES. LOAD |
| | 5b | 40V | | 0.3 Ω | | | | LOW PRES. LOAD |
| | 6a | 40V | 80V | 0.3 Ω | 0.6 Ω | | | LOW PRES. LOAD |
| | 6b | 40V | | 0.3 Ω | | | | LOW PRES. LOAD |
| | 7~n | 40V | | 0.3 Ω | | | | |

FIG. 29

| LSI | CHAN- NEL | WITHSTAND VOLTAGE | | USE | | |
|-----|--------------|----------------------|------|-----------------|-----------------|-----------------|
| | | | | FOR 4 CYLINDERS | FOR 6 CYLINDERS | FOR 8 CYLINDERS |
| 1 | 1 | 400V | | IGNITER 1 | IGNITER 1 | IGNITER 1 |
| | 2 | 400V | | IGNITER 2 | IGNITER 2 | IGNITER 2 |
| | 3 | 400V | | IGNITER 3 | IGNITER 3 | IGNITER 3 |
| | 4 | 400V | | IGNITER 4 | IGNITER 4 | IGNITER 4 |
| | 5a | 40V | 400V | LOW PRES. LOAD | IGNITER 5 | LOW PRES. LOAD |
| | 5j | 40V | | LOW PRES. LOAD | | LOW PRES. LOAD |
| | 6a | 40V | 400V | LOW PRES. LOAD | IGNITER 6 | LOW PRES. LOAD |
| | 6j | 40V | | LOW PRES. LOAD | | LOW PRES. LOAD |
| | 7~n | 40V | | LOW PRES. LOAD | LOW PRES. LOAD | LOW PRES. LOAD |
| 2 | 1 | 400V | | | | IGNITER 5 |
| | 2 | 400V | | | | IGNITER 6 |
| | 3 | 400V | | | | IGNITER 7 |
| | 4 | 400V | | | | IGNITER 8 |
| | 5a | 40V | 400V | | | LOW PRES. LOAD |
| | 5j | 40V | | | | LOW PRES. LOAD |
| | 6a | 40V | 400V | | | LOW PRES. LOAD |
| | 6j | 40V | | | | LOW PRES. LOAD |
| | 7~n | 40V | | | | LOW PRES. LOAD |

FIG. 30

| LSI | CHAN- NEL | WITHSTAND VOLTAGE | | ON RESISTANCE | | USE | | |
|-----|--------------|----------------------|-----|------------------|--------------|--------------------------|--------------------|--------------------------|
| | | | | | | 14 (12) V SYSTEM | 42V SYSTEM | MIXED BOTH SYSTEMS |
| 1 | 1a | 40V | 80V | 0.3 Ω | 0.6 Ω | 14 (12) V SYSTEM LOAD | 42V SYSTEM LOAD | 42V SYSTEM LOAD |
| | 1b | 40V | | 0.3 Ω | | 14 (12) V SYSTEM LOAD | | |
| | 2a | 40V | 80V | 0.3 Ω | 0.6 Ω | 14 (12) V SYSTEM LOAD | 42V SYSTEM LOAD | 42V SYSTEM LOAD |
| | 2b | 40V | | 0.3 Ω | | 14 (12) V SYSTEM LOAD | | |
| | 3a | 40V | 80V | 0.3 Ω | 0.6 Ω | 14 (12) V SYSTEM LOAD | 42V SYSTEM LOAD | 42V SYSTEM LOAD |
| | 3b | 40V | | 0.3 Ω | | 14 (12) V SYSTEM LOAD | | |
| | 4a | 40V | 80V | 0.3 Ω | 0.6 Ω | 14 (12) V SYSTEM LOAD | 42V SYSTEM LOAD | 42V SYSTEM LOAD |
| | 4b | 40V | | 0.3 Ω | | 14 (12) V SYSTEM LOAD | | |
| | ⋮ | | | | | | | |
| | na | 40V | 80V | 0.3 Ω | 0.6 Ω | 14 (12) V SYSTEM LOAD | 42V SYSTEM LOAD | 14 (12) V SYSTEM LOAD |
| | nb | 40V | | 0.3 Ω | | 14 (12) V SYSTEM LOAD | | 14 (12) V SYSTEM LOAD |

FIG. 31

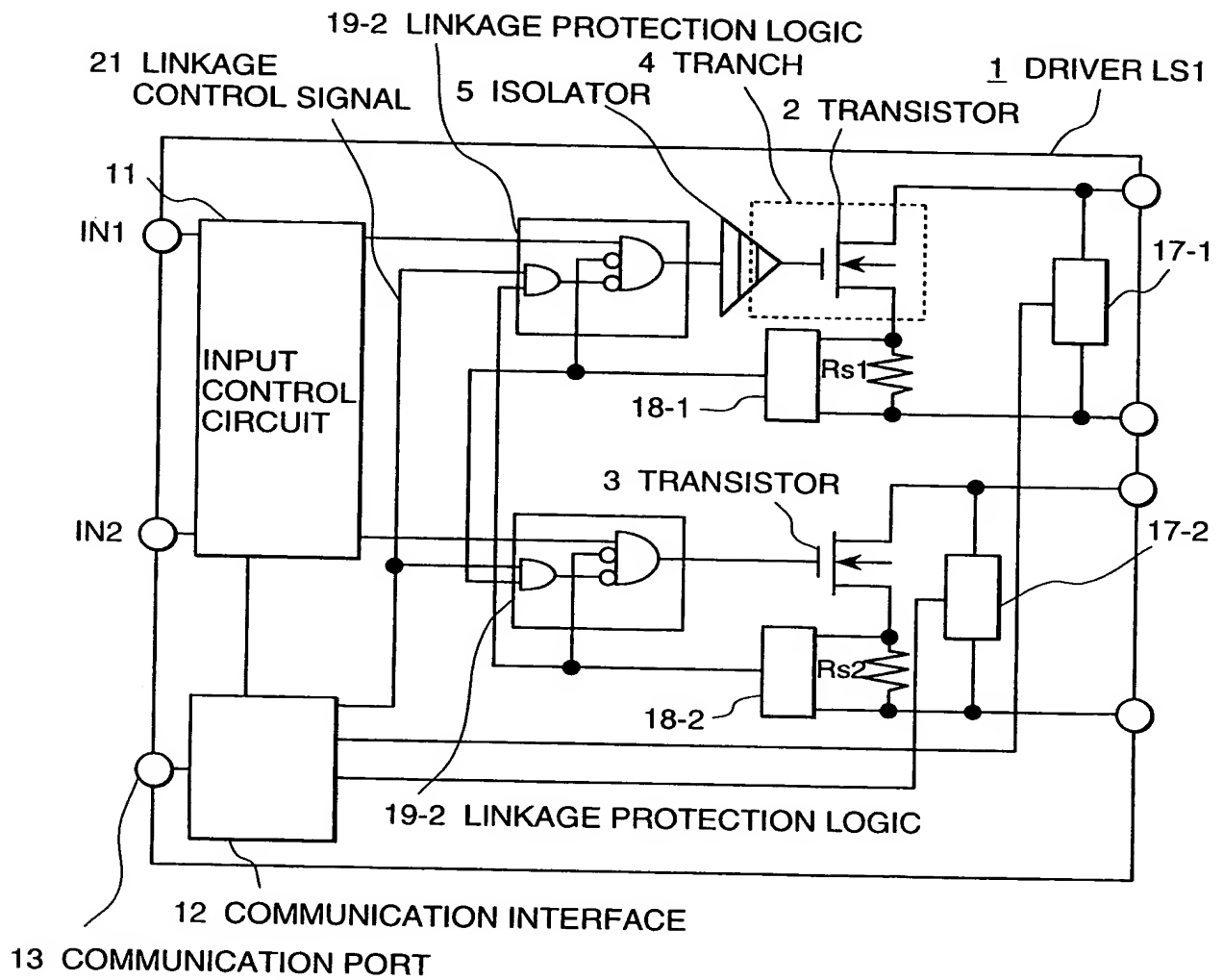


FIG. 32

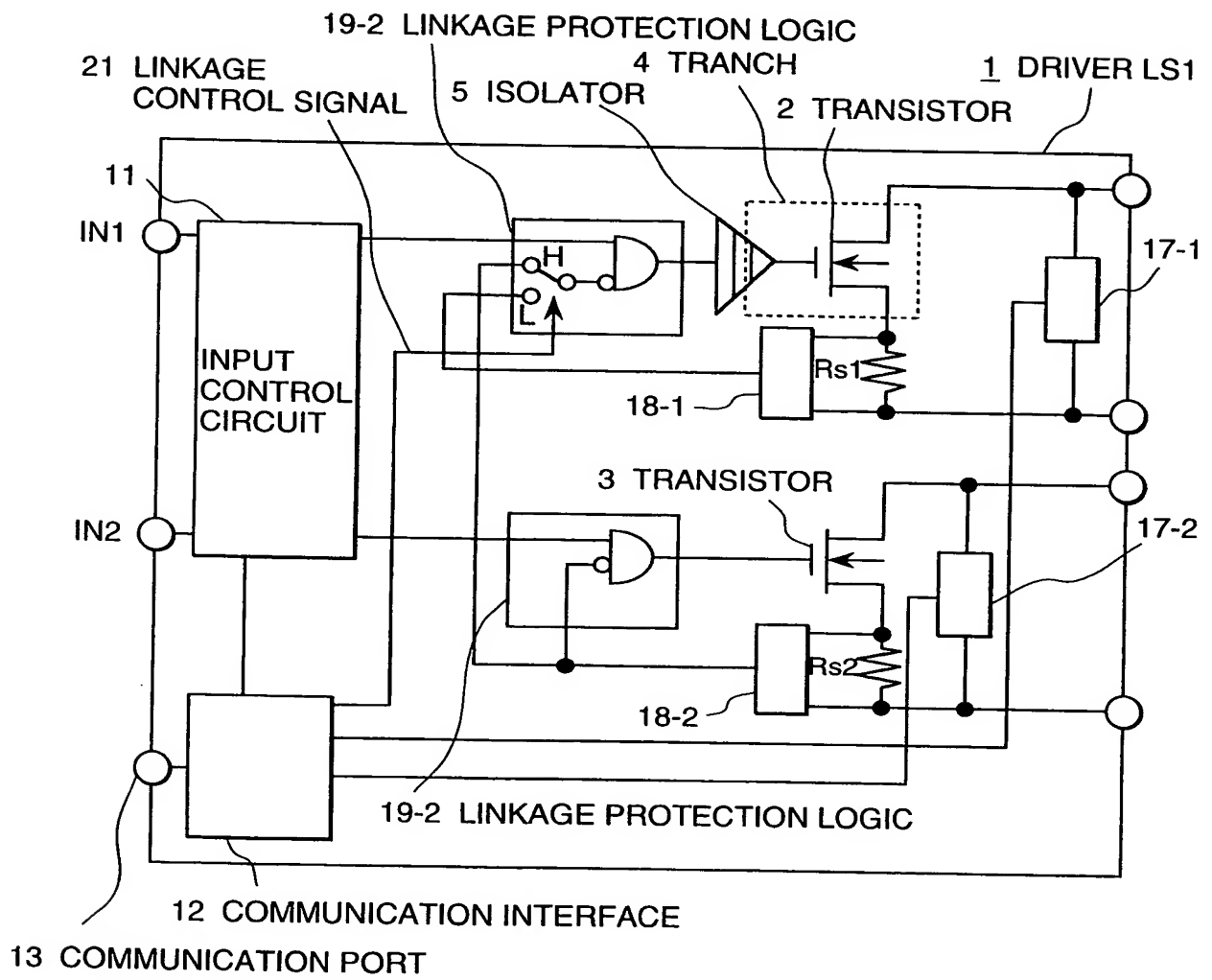


FIG. 33

